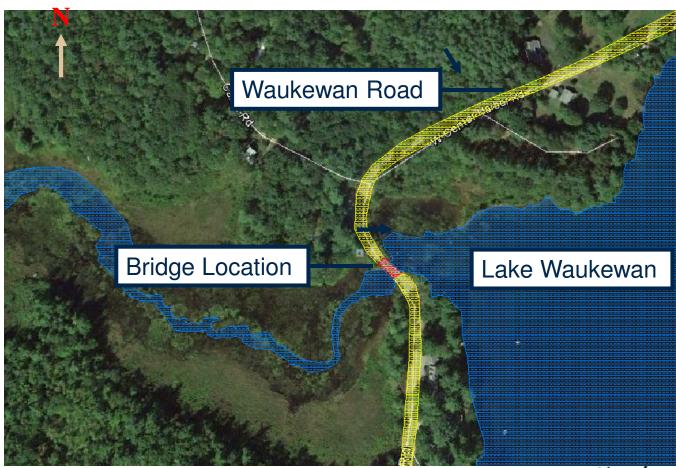




Third Public Informational Meeting September 27, 2016



Bridge Location







View looking towards Center Harbor (North)







View looking towards New Hampton (South)







View to the East from above







View to the West from above







View from Above







Work Session Results

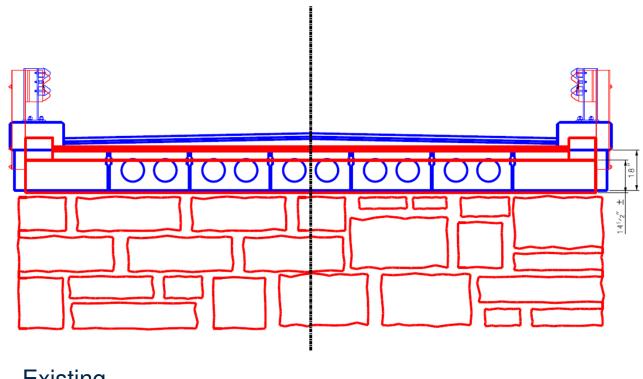
Work Session held on July 18, 2016

- A preferred alternative was selected.
- Maintains existing rail-to-rail width: 19'-4".
- Provides narrower curb-to-curb width: 18'-4"
- Slightly wider out-out width: 22'-4"
- Hydraulic opening slightly larger (higher)
- Road raised 6 to 8 inches at the bridge to accommodate deeper bridge.





Preferred Alternative Bridge Section



Existing



New Hampshive
Department of Transportation

Guardrail

- Existing:
 - W-Beam Guardrail
 - Steel posts bolted to top of curb on approach
 - Steel posts bolted to side of curb on bridge w/ wooden offset block
 - Wood posts and offset block along roadway
- Proposed:
 - W-Beam Guardrail
 - Steel posts bolted to top of curb on approach slab and bridge
 - Steel posts and synthetic offset block along roadway





Curb Width

Existing 1'-0"











Curb Reveal

Existing: 3"-5"



Proposed: 7" min.







Bridge Rail Height Above Curb

Existing: 2'-5"











Bridge Rail Height Above Pavement

Existing: 2'-9"

Proposed: 2'-7" (typical)









Guardrail

Existing



Proposed



Note:

Picture of Bridge # 092/103 Piermont, NH on Barton Road Showing similar proposed rail type





Guardrail Terminal End Unit

- Existing guardrail terminates into the ground
 - Outdated technique, no longer used by NHDOT due to safety concerns
 - Has been proven to flip vehicles upon impact
- Proposed guardrail will terminate with a "SoftStop" unit
 - Tested to withstand vehicular impact
 - Energy absorbing
 - Meets MASH evaluation criteria
 - New preferred unit by NHDOT





Guardrail Terminal End Unit











Bridge Footprint

- Existing stone work maintained
- Same clear span
- Proposed bridge to run over the top of existing stones and bear on shallow abutment
- Approximately same length of curb

• N/E Side: 60' ±

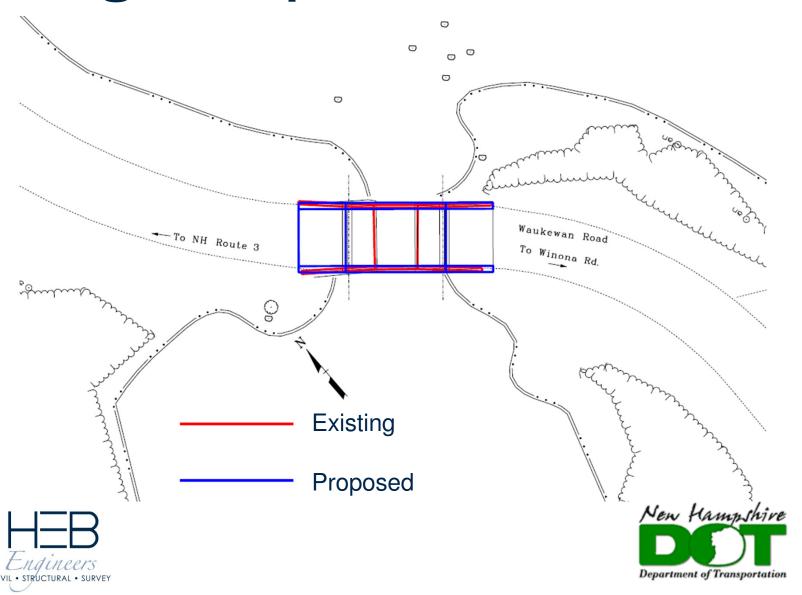
• S/W Side: 56.5' ±

• Proposed: 62' ±





Bridge Footprint



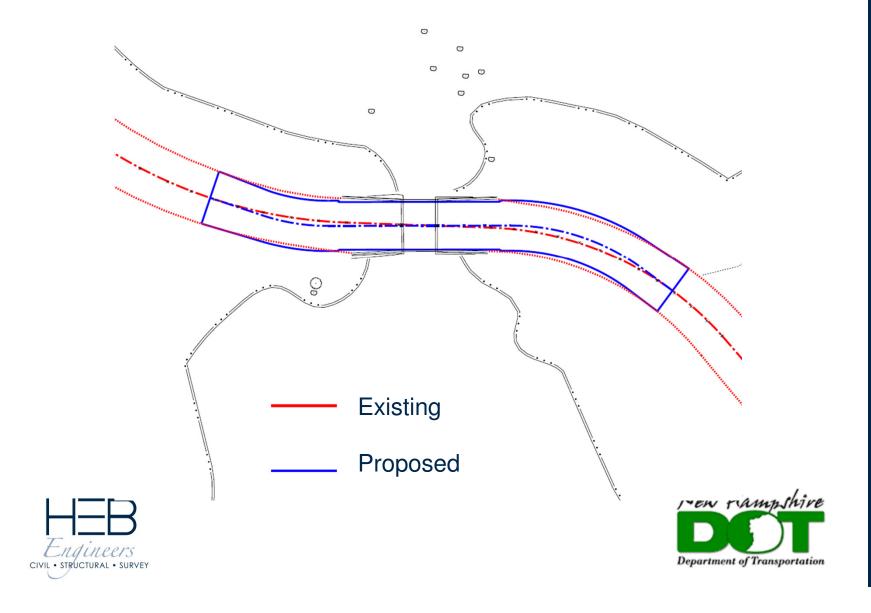
Roadway

- Existing Roadway Width: 20' ±
- Proposed Roadway Width: Varies
 - Match existing at beginning/end of road reconstruction
 - Two 9'-2" lanes with 6" shoulder on both sides of road
 - Two 9'-2" lanes through bridge and approach slab
- Length of roadway reconstruction: <200'
- Generally match roadway geometry and profile as much as possible
 - Raise road slightly (6" to 8" at bridge)





Roadway Plan



Next Steps

- Review project with Natural Resource Agencies to get their input and comments
- Complete NEPA process (National Environmental Policy Act) for environmental permitting
- Develop preliminary plans
- Contract Plans Completed Fall 2019
- Funding in Fiscal Year 2021 (Draft Ten-Year Plan)
- Construction Starts in 2021
- Estimated Construction Cost \$0.6 Million Based on Rehabilitation and Closed Bridge During Construction





Concerns, Comments, and Questions





